

IN THE CLAIMS

1. (Currently amended) Device for extraction ~~and taking~~ of samples of an aqueous solution in a substratum; comprising a probe of a pyrometric capsule of porous porcelain having an end of lesser diameter than another end to which is ~~attached~~ ^{no longer} attachable a pipe of inert material, and a rubber cap with drilled holes hermetically sealing the pipe, an adapter ~~pipe~~ tube being fitted into one of the holes and being connectable to a vacuum pump, and a suction capillary that is ~~placeable~~ placeable inside the probe being fitted into another of the holes.

2. (Cancelled)

3. (Currently amended) Use of a device for extracting samples of an aqueous solution in a substratum according to Claim 21, ~~wherein the agricultural applications comprise studies of~~ comprising studying the composition of different chemical ~~forms~~ compositions, evolution and degradation of organic compounds (~~chelates~~) including chelates and inorganic compounds in their different chemical forms. ~~Also, to discover the~~ and discovering evolution and availability of fertilizing nutrients ~~in general, over the whole~~ an entire soil profile.

4. (Currently amended) Use of a device for extracting samples of an aqueous substrate solution according to Claim 21, ~~whereas the environmental applications comprise control~~ comprising controlling polluting effluents such as nitrates, nitrites, fitosanitary compounds in general, chemical evolution of

inorganic compounds, organic compounds (including, chelates, and remains of pesticides), and ~~the control~~ of aquifers.

5. (Currently amended) Use of a device according to Claim 21, ~~wherein the industrial applications include pond control with~~ comprising decanting of at least one of solids and liquids in ponds, and controlling residue ~~control~~.

6. (New) Device for extraction and sampling from an aqueous solution of substrate comprising a probe consisting of a pyrometry capsule of porous porcelain fitted with an end zone of smaller diameter to which a tube of inert material is attached, the end of which is sealed hermetically with a rubber or PVC cap adaptable to a vacuum pump and through which a suction capillary enters that is introduced into the probe interior.